

AGRONOMY EQUIPMENT

STUDY GUIDE



(Revised 2025)

Procedures

A. Identification - 240 points (48 Specimens at 5 points each)

Students will identify 20 plant specimens, 20 seed specimens, and 8 farm equipment specimens. Ideally, the plants should be live specimens and can represent any stage of development. However, they could be press mounts or photographs. Plant specimens should be equally divided between crop and weed plants. Each seed specimen must be real seed, no photographs of seeds. Seed specimens should be equally divided between crop and weed seeds. Specimens can only come from the ID list's provided. Each specimen will be worth five points.

B. Placing Classes- 150 points (3 Classes at 50 points each)

There will be three placing classes each having four samples. Students will rank the four samples in proper order based on quality, uniformity, and shelf life of each sample. One class will be representative of each of the following categories; grain crops (seed samples), forage crops (loose or baled hay or green chop), and fruit or vegetable crops (fruits, berries, leaves, tubers etc). Class specimens will only be chosen from the provided "Crops ID List".

C. Insect Identification - 120 points (5 specimens totaling 24 points each)

This component will consist of identifying insects. Additionally students will have to identify characteristics related to the individual insect. Students will identify five insects (8 points each) along with the following characteristics for each insect identified: Life cycle of each specimen (8 points each), and Mouth part of each specimen (8 points each).



ID #: 300

Name:

AIR COMPRESSOR/HOSE



ID #: 301

Name:

ANEMOMETER



ID #: 302 **Name:**

BACKPACK SPRAYER

ID #: 303 **Name:**

BALER



ID #: 304 **Name:**

BEAN HARVESTER HEAD (FOR COMBINE)



ID #: 305 **Name:**

BED MULCHER



ID #: 306 **Name:**
BED SHAPER



ID #: 307 **Name:**
CENTER PIVOT



ID #: 308 **Name:**

CHEMIGATION UNIT



ID #: 309 **Name:**

COMBINE



ID #: 310

Name:

CONVEYOR/ELEVATOR



ID #: 311

Name:

**CORN HARVESTER HEAD
(FOR COMBINE)**



ID #: 312

Name:

COTTON PICKER/STRIPPER



ID #: 313

Name:

CROP CULTIVATOR



ID #: 314

Name:

CROP DISC CULTIVATOR



ID #: 315

Name:

FERTILIZER BROADCASTER



ID #: 316

Name:

FIELD SHOVEL



ID #: 317

Name:

FORAGE HARVESTER



ID #: 318 **Name:**

GAUGE WHEEL



ID #: 319 **Name:**

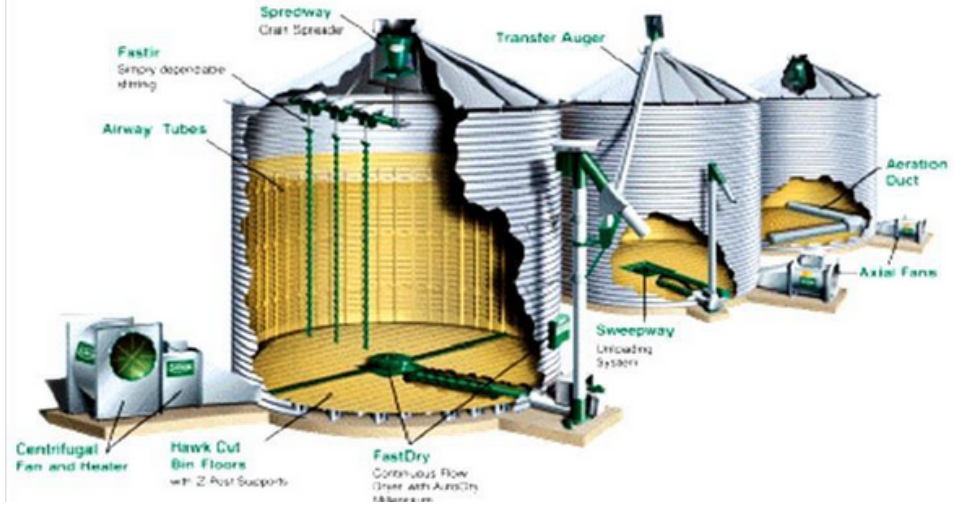
GRAIN AUGER



ID #: 320

Name:

GRAIN MOISTURE METER



This picture shows the relationship between 6 ft, 7 ft, and 9 ft Bulk Bins



ID #: 321

Name:

GRAIN STORAGE BIN/DRYER



ID #:

322

Name:

HAY RAKE



ID #:

323

Name:

HEARING PROTECTION



ID #:

324

Name:

HITCH PIN



ID #:

325

Name:

HOE





ID #: 326 **Name:**
HYDRAULIC HOSE



ID #: 327 **Name:**
**LIQUID MANURE/
FERTILIZER SPREADER**



ID #: 328

Name:

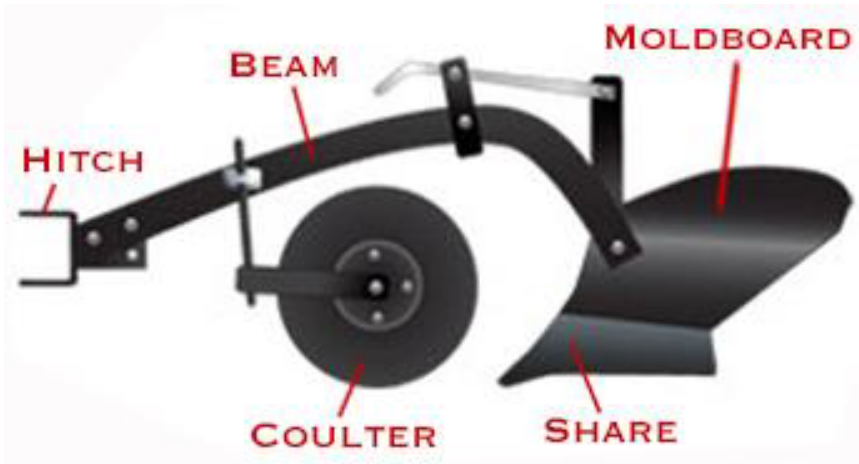
MANURE SPREADER (DRY)



ID #: 329

Name:

MODULE BUILDER



ID #: 330

Name:

MOLDBOARD PLOW



ID #: 331

Name:

MOWER



Adjustable Nozzle



Red



ID #: 332

Name:

NOZZLE BODIES



ID #: 333

Name:

PEA HARVESTER



ID #: 334

Name:

PEANUT DIGGER



ID #: 335

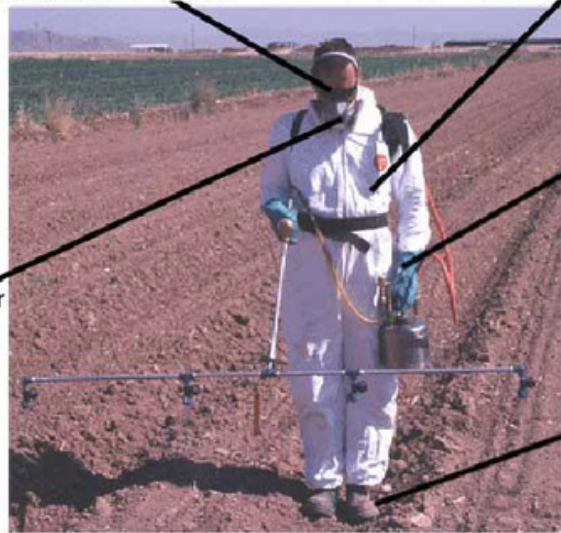
Name:

PLOW (SOIL CHISEL)



Safety Glasses or Goggles

Chemical Resistant Coveralls



Respirator

Chemical Resistant Rubber Gloves

Chemical Resistant Rubber Boots

ID #: 336

Name:

PPE (ALL EQUIPMENT)



ID #: 337

Name:

PRESS WHEEL



ID #: 338 **Name:**

PRESSURE GAUGE



ID #: 339 **Name:**

PRESSURE REGULATOR



ID #: 340

Name:

PTO SHAFT



ID #: 341

Name:

ROTARY HOE



ID #:

342

Name:

SEED PLATE



ID #:

343

Name:

SOIL PROBE



ID #: 344 **Name:**

SOIL THERMOMETER



ID #: 345 **Name:**

SPRAYER



ID #: 346

Name:

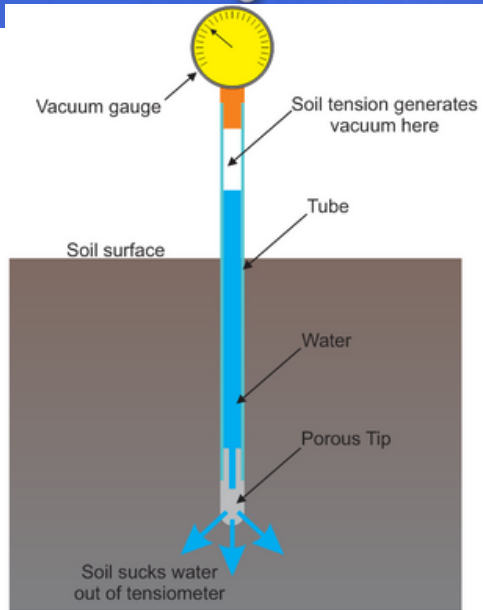
SWATHER (WINDROWER)



ID #: 347

Name:

SWEEP NET



ID #: 348

Name:

TENSIOMETER



ID #: 349

Name:

TRACTOR



ID #: 350

Name:

VEGETABLE TRANSPLANTER